

## Message Text

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ACTION IO-10

INFO OCT-01 EUR-12 ISO-00 AF-06 ARA-10 EA-09 NEA-10 OIC-02

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PM-04 L-03 NASA-02 NSC-05 OES-05 DOTE-00 FMC-02 CG-00

OFA-01 DLOS-04 ERDA-07 /141 W  
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R 291352Z SEP 75

FM USMISSION GENEVA

TO SECSTATE WASHDC 604

INFO AMCONSUL MONTREAL

UNCLAS GENEVA 7417

MONTREAL FOR ICAO

DEPT PLEASE PASS ALSO DR. E. EPSTINGN NOAA, ROCKVILLE

EO: 11652: N/A

TAGS: WMO

SUBJ: SECOND SESSION WMO PANEL FOR FIRST GARP GLOBAL EXPERIMENT  
(FGGE)

SUMMARY: THE PURPOSE OF THIS SECOND PANEL SESSION WAS TO CARRY THE PLANNING FOR THE FIRST GARP GLOBAL EXPERIMENT FAR ENOUGH TO PERMIT THE INTERGOVERNMENTAL CONFERENCE SCHEDULED FOR FEBRUARY 1976 TO AGREE ON COMMITMENTS OF SCIENTIFIC AND TECHNICAL RESOURCES FOR THE EXPERIMENT, PROPOSED FOR 1978-1979. THE PANEL CONCLUDED THAT SPECIFICATIONS FOR THE EXPERIMENT ARE NOW SUFFICIENTLY WELL DESCRIBED TO JUSTIFY THE MEETING AS PLANNED. THE PRELIMINARY STATEMENTS OF PARTICIPANTS GIVE REASONABLE ASSURANCE THAT MAJOR COMPONENTS NEEDED FOR THE EXPERIMENT WILL BE PROVIDED. A PLANNING SCHEDULE UP TO 1982 WAS ADOPTED.

1. THE SECOND SESSION OF THE WMO INTERGOVERNMENTAL PANEL FOR FGGE  
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MET FROM SEPTEMBER 22 TO 26, 1975, WITH ALL MEMBERS EXCEPT AUS-

TRALIA PRESENT. TWO NEW MEMBERS, ARGENTINA AND IRAN, TOOK PART. THE IRANIAN DELEGATION MADE A NUMBER OF USEFUL SUGGESTIONS, AUGURING WELL FOR THE SUCCESSFUL ACCOMPLISHMENT OF THEIR SIGNIFICANT CONTRIBUTION TO THE CONSTANT-LEVEL BALLOON PROGRAM (IN COOPERATION WITH FRANCE). GOSSET (FRANCE) CHAIRED THE SESSION AND WAS RE-ELECTED AS CHAIRMAN UNTIL THE END OF THE THIRD SESSION, PLANNED FOR JULY 1976.

2. REVIEW OF PRESENT OBSERVING NETWORKS CONFIRMS VIEW THAT WWW PLAN NOT BEING IMPLEMENTED SUFFICIENTLY FOR FGGE PURPOSES. THE WWW DEPT IDENTIFIED 47 UPPER AIR SOUNDING STATIONS WITHIN WWW PLAN AND NOT NOW IMPLEMENTED BUT NEEDED IN ORDER TO FILL CRITICAL GAPS, SPECIALLY IN THE TROPICS. (FIVE OF THESE ARE ISLAND STATIONS UNDER U.S. ADMINISTRATION, WHERE OBSERVATIONS NEEDED AT LEAST FOR TWO SPECIAL OBSERVING PERIODS, EACH OF TWO MONTHS DURATION). POSSIBILITIES FOR FILLING SOME DEFICIENCIES BY SUPPORT FROM WMO VOLUNTARY ASSISTANCE PROGRAM TO BE EXAMINED IN PROPOSED INFORMAL MEETING OF PROSPECTIVE DONORS.

3. PANEL URGED U.S. TO CONTINUE DEVELOPMENT OF A CARRIER BALLOON SYSTEM TO PROVIDE ESSENTIAL WIND INFORMATION OVER TROPICAL BELT. USSR STRESSED NEED TO MINIMIZE HAZARD TO CIVIL AVIATION, URGING THAT BALLOONS NOT BE ALLOWED TO STRAY NORTH OF TEN DEGREES NORTH. U.S. FOUND THIS RESTRICTION UNACCEPTABLE. RECOMMENDATION ADOPTED REFERS TO CUTOFF CAPABILITY FOR BALLONS THAT STRAY FROM TROPICAL ZONE OR DESIGN-ALTITUDE REGION. NEITHER USSR NOR OTHER PANEL MEMBERS EXPRESSED CONCERN WITH BALLOON FLIGHTS IN SOUTHERN HEMISPHERE.

4. ALL OTHER COMPONENTS OF SPECIAL OBSERVING SYSTEM FULLY DISCUSSED. THESE INCLUDE IN ADDITION TO CARRIER BALLOON SYSTEM, A CONSTANT-LEVEL BALLOON SYSTEM AND DRIFTING BUOYS IN THE SOUTHERN HEMISPHERE, AND SHIPS FOR WIND DETERMINATION IN THE TROPICS. ADDITIONALLY, PANEL DEALT WITH EXPANSION OF THE METEOROLOGICAL SYSTEM OF POLAR ORBITING AND GEOSTATIONARY SATELLITES, AUGMENTATION AND AUTOMATION OF AIREPS, AND THE STATUS OF NAVIGATIONAL WIND SYSTEM. THE PANEL CONCLUDED THAT THE ELEMENT MOST DEFICIENT AT PRESENT WAS THE SHIP PROGRAM, AND URGED SPECIAL EFFORTS IN THIS DIRECTION.

5. MONEX AND POLEX REGIONAL SUB-PROGRAMS OF FGGE WERE BOTH REFERRED.

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ED BACK TO JOC FOR FURTHER SPECIFICATION. RECOMMENDATION ON MONEX REFERRED TO CONTINUING THE PLANNING TO TAKE FULL ACCOUNT OF OTHER CURRENTLY PLANNED ACTIVITIES SUCH AS INDEX AND CINCWIO. RECOMMENDATION ON POLEX CALLS FOR CONSIDERING POLEX-NORTH AND POLEX-SOUTH AS INDIVIDUAL PROGRAMS, AND EMPHASIZES THAT POLAR HYDROSPHERIC AND CRYOSPHERIC STUDIES DURING FGGE SHOULD NOT RECEIVE CONCENTRATED ATTENTION WHERE SUCH EFFORTS WOULD COMPETE FOR RESOURCES WITH OTHER FGGE PROGRAMS.

6. THE PANEL RCOMMENDED THAT SPECIAL COORDINATING AGENCIES BE SET UP TO MANAGE BOTH THE OCEAN BUOY AND CONSTANT LEVEL BALLOON PROGRAMS.

7. THE PANEL ADOPTED THE BASIC CONCLUSIONS AND RECOMMENDATIONS OF THE INFORMAL PLANNING MEETING ON THE DEVELOPMENT OF AN OBSERVATIONAL STRATEGY FOR THE EQUATORIAL TROPICS DURING THE FGGE, HELD IN WASHINGTON, 14-16 JULY. PARTICULAR ATTENTION WAS GIVEN TO THE SHIP PROGRAM.

THE PANEL FOUND THAT TH 50 SHIPS CONSIDERED NECESSARY WOULD LIKELY BE MIXTURE OF WELL EQUIPPEDRESEARCH VESSELS CARRYING OUT COMPLX OBSERVING PROGRAMS AS WELL AS SHIPS CARRYING MORE SIMPLE TYPES OF EQUIPMENT PRIMARILY FOR MAKING UPPER AIR SOUNDINGS. IT FELT THAT THESE SHIPS MIGHT HAVE OTHER MISSIONS (CARGO9 AND THUS IT WOULD BE IMPRACTICABLE TO ASSIGN FIXED LOCATIONS TO EITHER TYPE. THE CRITICAL CRITERIA WAS TO ACHIEVE A CERTAIN DENSITY OF OBSERVATIONS IN THETROPICAL AREA, WHERE ALL TYPES OF OBSERVING PLATFORMS, INCLUDING AIRCRAFT AND CARRIER BALLOONS WOULD BE INTEGRATED INTO THE EVENTUAL NETWORK DESIGN.

8. A SYSTEMFOR MANAGING THE DATA FLOW FROM BOTH BASIC AND SPECIAL OBSERVING SYSTEMS BUILT UP FOR FGGE HAS PROVENTO BE A PARTICULARLY COMPLICATED TASK, TO WHICH THE APRIL MEETING IN WASHINGTON ON THIS SUBJECT (GARP SPECIAL REPORT NO.16) HAS MADE MAJOR CONTRIBUTIONS.

THE PANEL IDENTIFIED A NUMBER OF AREAS IN WHICH ADDITIONAL WORK IS SPECIFICALLY REQUIRED, AND CALLED FOR A SECOND MEETING OF EXPERTS IN APRIL 1976, PRECEDED BY SMALLER MEETINGS BY EXPERTS IN SPECIFIC SUB-PROGRAMS. THE LARGEST ISSUE REMAINING IS THE DESIGNATION OF A II-B CENTER FOR FGGE. MEMBERS WILL BE OFFERED SEVERAL UNCLASSIFIED

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POSSIBLE CONFIGURATIONS BY WHICH THE RESEARCH DATA SET MAY BE ACQUIRED SO AS TO MAKE THE TASK MORE ACCEPTABLE TO POSSIBLE VOLUNTEERS FOR THESE FUNCTIONS.

9. A PRESENTATION SUMMARIZING THE U.S. EXPERIENCE FROM NASA'S GARP DATA SYSTEMS TEST WAS INSTRUMENTAL IN OBTAINING ADOPTION BY THE PANEL OF IMPORTANT PROGRAMS OF INTERNATIONAL SUB-SYSTEMS AND INTERFACE TESTS.

10. A MAJOR ACCOMPLISHMENT OF THE PANEL MEETING WAS THE ADOPTION OF A COMPREHENSIVE SET OF INTERRELATED MILSTONES, INCLUDING DATES FOR THE DRAFTING AND ADOPTION OF PLANNING DOCUMENTS, THE ACCOMPLISHMENT OF TESTS AND EVALUATIONS, AND MEETINGS OF VARIOUS BODIES. THIS SCHEDULE EXTENDS TO THE ADOPTING, IN 1982, OF A REVISED PLAN FOR THE WORLD WEATHER WATCH ON THE BASIS OF EXPERIENCE

AND RESEARCH ACCOMPLISHED IN FGGE.DALE

NOTE BY OCT: NOT PASSED ABOVE.

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## Message Attributes

**Automatic Decaptioning:** X  
**Capture Date:** 01 JAN 1994  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** METEOROLOGY, SCIENTIFIC COOPERATION, RESEARCH, MEETINGS  
**Control Number:** n/a  
**Copy:** SINGLE  
**Draft Date:** 29 SEP 1975  
**Decaption Date:** 01 JAN 1960  
**Decaption Note:**  
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**Disposition Approved on Date:**  
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**Drafter:** n/a  
**Enclosure:** n/a  
**Executive Order:** N/A  
**Errors:** N/A  
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**Office:** ACTION IO  
**Original Classification:** UNCLASSIFIED  
**Original Handling Restrictions:** n/a  
**Original Previous Classification:** n/a  
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**Page Count:** 4  
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**Previous Handling Restrictions:** n/a  
**Reference:** n/a  
**Review Action:** RELEASED, APPROVED  
**Review Authority:** MartinML  
**Review Comment:** n/a  
**Review Content Flags:**  
**Review Date:** 04 JUN 2003  
**Review Event:**  
**Review Exemptions:** n/a  
**Review History:** RELEASED <04 JUN 2003 by MaustMC>; APPROVED <28 JAN 2004 by MartinML>  
**Review Markings:**

Margaret P. Grafeld  
Declassified/Released  
US Department of State  
EO Systematic Review  
06 JUL 2006

**Review Media Identifier:**  
**Review Referrals:** n/a  
**Review Release Date:** n/a  
**Review Release Event:** n/a  
**Review Transfer Date:**  
**Review Withdrawn Fields:** n/a  
**Secure:** OPEN  
**Status:** NATIVE  
**Subject:** SECOND SESSION WMO PANEL FOR FIRST GARP GLOBAL EXPERIMENT (FGGE)  
**TAGS:** TPHY, OCON, WMO  
**To:** STATE  
**Type:** TE  
**Markings:** Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 06 JUL 2006